

CLIPPEDIMAGE= JP404074675A  
PAT-NO: JP404074675A  
DOCUMENT-IDENTIFIER: JP 04074675 A  
TITLE: RECORDER

PUBN-DATE: March 10, 1992

INVENTOR-INFORMATION:

NAME

HORIGOME, HIDEO  
ARAKAWA, JUNICHI

ASSIGNEE-INFORMATION:

NAME

CANON INC

COUNTRY

N/A

APPL-NO: JP02189245

APPL-DATE: July 17, 1990

INT-CL\_(IPC): B41J029/46; B41J002/01

US-CL-CURRENT: 347/19,400/703

ABSTRACT:

PURPOSE: To detect a battery capacity with high accuracy by providing a detection means for detecting the capacity of a battery and a detection control means for making the detection means detect the capacity in synchronism with a specific action of a drive load within a recording action period.

CONSTITUTION: A low battery alarm is issued when the level of a battery capacity is too lowered to ensure a recording action during the recording

action. If the recording action is continued in this state, the function of a device is stopped during the recording. Received recording information may be erased, an ink delivery port of a recording head may be left unsealed when the level of the battery capacity is too lowered to drive a carriage and a capping member, and other failures may occur. Then, during the recording action, a residual battery capacity is detected for every line recording. In a step S1, a discharge current of the battery is momentarily controlled to an appropriate magnitude by loading pulses. Meanwhile, the excitation of a carriage motor phase is started for detecting the voltage of the battery. Namely, the drive of a carriage motor 8 is started. In a step S2, a fixed time  $t_{SB1}$  is counted until the drop of the battery voltage is substantially saturated. In a step S3, the battery voltage is detected. In this manner, the limited battery capacity can be effectively used.

COPYRIGHT: (C)1992,JPO&Japio